



PTO/SB/08B (04-07)

Approved for use through 09/30/2007. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/764,213
Filing Date	01/23/2004
First Named Inventor	Oraevsky, Alexander A.
Art Unit	1616
Examiner Name	
Attorney Docket Number	FMT-OA.01US

Sheet 1 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/NS/	43	A. A. ORAEVSKY, Laser based optoacoustic imaging in biological tissues, Proc. SPIE 1994; 2134A: 122-128	
/NS/	44	A. A. ORAEVSKY, Lateral and z-axial resolution in laser optoacoustic imaging with ultrasonic transducers, Proc. SPIE, 1995, 2389, 198-208, (Appendix)	
/NS/	45	A. A. ORAEVSKY, et al. "Breast Cancer Diagnostics by Laser Opto-Acoustic Tomography", OSA Trends ***in Optical Imaging and Photon Migration", 1996, v.2, pp: 316-321	
/NS/	46	A. A. ORAEVSKY, et al. Measurement of tissue optical properties by time-resolved detection of laser-induced transient stress, Applied Optics, 1997, 36(1): 402-415	
/NS/	47	S. LINK, et al. Spectral properties & relaxation dynamics, surface plasmon electronic oscillations in gold and silver nanodots and nanorods, J. Phys. Chem. B, 1999, 103, 8410	
/NS/	48	S. LINK, et al, Shape and size dependence of radiative, non-radiative and photothermal properties of gold nanocrystals, Int. Rev. Phy. Chem., 19 (3), 409-453 (2000)	
/NS/	49	A. A. ORAEVSKY, et al. Optoacoustic supercontrast for early cancer detection," Proc. SPIE 2001; 4256, 179-187	
/NS/	50	A. A. ORAEVSKY, et al. Enhancement of optoacoustic tissue contrast with absorbing nanoparticles, European Conference on Biomedical Optics, Proc. SPIE 2001, 4434, 60-69	
/NS/	51	M.A. El-Sayed, Some interesting properties of metals confined in time and nanometer space of different shapes, Accounts of Chemical Research, 34 (1), 257-264 (2001)	
/NS/	52	A. A. ORAEVSKY, et al. Opto-acoustic imaging of blood for the visualization and diagnosis of breast cancer, Proc. SPIE 2002; 4618: 81-93	

Examiner Signature	/Nasir Shahrestani/	Date Considered	09/04/2007
--------------------	---------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

(Use as many sheets as necessary)

Sheet

2

of

2

Application Number

10/764.213

Filing Date

01/23/2004

First Named Inventor

Oraevsky, Alexander A.

Art Unit

1616

Examiner Name

Attorney Docket Number

FMT-OA.01US

Examiner
Initials*Cite
No. 1

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

T2

/NS/

53

A. A. ORAEVSKY, et al. On a plasmon resonance in ellipsoidal nanoparticles, Quantum Electronics, 32 (1) 79-82 (2002)

**Examiner
Signature**

/Nasir Shahrestani/

Date _____

Considered

09/04/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

RECEIVED
CENTRAL FAX CENTER

MAY 01 2007

PTO/SB/08A (04-07)

Approved for use through 09/30/2007. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Sheet 1 of 2

Application Number 10/764,213
Filing Date 01/23/2004
First Named Inventor Oraevsky, Alexander A.
Art Unit 1616
Examiner Name
Attorney Docket Number FMT-OA.01US

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/NS/	1	US- 20010002275	05-31-2001	Oldenburg et al	
/NS/	2	US- 20020044909	04-18-2002	Achilefu et al	
/NS/	3	US- 20020022004	02-21-2002	Licha et al	
/NS/	4	US- 20020132045	09-19-2002	Halas et al	
/NS/	5	US- 20020103517	08-01-2002	West et al	
/NS/	6	US- 20020160195	10-31-2002	Halas et al	
/NS/	7	US- 20020034537	03-21-2002	Schulze et al	
/NS/	8	US- 6,428,811	08-06-2002	West et al	
/NS/	9	US- 6,403,056	06-11-2002	Ungar	
/NS/	10	US- 6,395,257	05-28-2002	Achilefu et al	
/NS/	11	US- 6,375,931B2	04-23-2002	Bronstein et al	
/NS/	12	US- 6,344,272	02-05-2002	Oldenburg et al	
/NS/	13	US- 6,331,289	12-18-2001	Klaveness et al	
/NS/	14	US- 6,270,806	08-07-2001	Liversidge et al	
/NS/	15	US- 6,264,919	07-24-2001	Achilefu et al	
/NS/	16	US- 6,264,917	07-24-2001	Klaveness et al	
/NS/	17	US- 6,264,914	07-24-2001	Klaveness et al	
/NS/	18	US- 6,264,920	07-24-2001	Achilefu et al	
/NS/	19	US- 6,190,641	02-20-2001	Achilefu	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
/NS/	37	PCT WO0106257	01-25-2001	WEST	
/NS/	38	PCT WO9857667	12-23-1998	HENRICHS	
/NS/	39	PCT WO02059226	08-01-2002	HALAS et al	
/NS/	40	Eur. Pat. EP0601618	06-15-1994	GEORGE et al	
/NS/	41	Eur. Pat. EP0602700	06-22-1994	GEORGE et al	
/NS/	42	Eur. Pat. EP0808175	11-28-1997	KLAIVENESS et al	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initials. If reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (04-07)

Approved for use through 08/30/2007. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 2

Complete if Known

Application Number	10/764,213
Filing Date	01/23/2004
First Named Inventor	Oraevsky, Alexander A.
Art Unit	1616
Examiner Name	
Attorney Docket Number	FMT-OA.01US

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/NS/	20	US- 6,183,726	02-06-2001	Achilefu et al	
/NS/	21	US- 6,180,087	01-30-2001	Achilefu et al	
/NS/	22	US- 6,180,085	01-30-2001	Achilefu et al	
/NS/	23	US- 6,143,276	11-07-2000	Unger et al.	
/NS/	24	US- 6,139,819	10-31-2000	Unger et al.	
/NS/	25	US- 6,123,923	09-26-2000	Unger et al.	
/NS/	26	US- 6,080,858	07-18-2000	El-Sayed	
/NS/ /NS/	27	US- 5,840,023	11-24-1998	Oraevsky et al	
/NS/	28	US- 5,580,579	12-03-1996	Ruddy et al	
/NS/	29	US- 5,573,783	11-12-1996	Oesleno et al	
/NS/	30	US- 5,560,932	10-01-1996	Bagchi et al	
/NS/	31	US- 5,447,710	09-05-1995	Na et al	
/NS/	32	US- 5,543,133	08-06-1996	Swanson et al	
/NS/ /NS/	33	US- 5,525,328	06-11-1996	Bacon et al	
/NS/	34	US- 5,521,218	05-28-1996	Osifo	
/NS/	35	US- 5,500,204	03-19-1996	Osifo	
/NS/	36	US- 5,472,683	12-05-1995	Illig	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁵
		Country Code ³ Number ⁴ Kind Code ² (if known)				

Examiner
Signature

/Nasir Shahrestani/

Date
Considered

09/04/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.